

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

Claim 1. (Previously Presented) A polytetrafluoroethylene block-shaped molded article having a melt viscosity and a block deformation amount contained within a polygonal region surrounded by a straight line A: $x = 1.0 \times 10^9$ (melt viscosity of 1.0×10^9 poise), a straight line B: $x = 2.5 \times 10^{10}$ (melt viscosity of 2.5×10^{10} poise), a straight line C1: $y = 7.0$ (block deformation amount of 7.0%), a straight line D1: $y = 0$ (block deformation amount of 0%), a straight line E1: $y = -8.7 \log_{10}(x) + 91$ in a graph with an x-axis being a common logarithm of the melt viscosity (poise) at 380°C of polytetrafluoroethylene and a y-axis being the block deformation amount (%) which is a weight loss until a stable film or sheet is cut from the molded article,

wherein the polytetrafluoroethylene block-shaped molded article is obtained by compression-molding and baking a polytetrafluoroethylene powder obtained by suspension polymerization, and

said polytetrafluoroethylene block-shaped molded article is cylindrical and has a height of at least 800 mm.

Claims 2. (Previously Presented) The molded article according to claim 1, wherein the melt viscosity at 380°C of the molded article is at most 2×10^{10} poise.

Claim 3. (Previously Presented) The molded article according to claim 1, wherein the block deformation amount is more than 0.7%.

Claim 4. (Canceled)

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Claim 5. (Withdrawn) A method of producing a polytetrafluoroethylene block-shaped molded article, comprising inserting a polytetrafluoroethylene preform obtained by compression-molding a polytetrafluoroethylene powder, into a pipe in a state in which a symmetry axis of the preform is horizontal; placing the pipe on two rolls spaced apart in a horizontal direction; and heating the preform to bake the preform while rotating the pipe and the preform by rotating at least one roll to transmit a rotation of the roll to the pipe, whereby giving the polytetrafluoroethylene block-shaped molded article.

Claim 6. (Withdrawn) The method according to claim 5, wherein a load per unit area at the time of baking the preform is at most 100 g/cm².

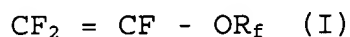
Claim 7. (withdrawn) The method according to claim 5, wherein an expansion of the height of the block-shaped molded article which is

generated at the time of producing the polytetrafluoroethylene block-shaped molded article from the preform is at least 6%.

D1 Claim 8. (Withdrawn) A method of producing a polytetrafluoroethylene block-shaped molded article, comprising inserting a polytetrafluoroethylene preform obtained by compression-molding a polytetrafluoroethylene powder, into a pipe in a state in which a symmetry axis of the preform is horizontal; placing the pipe on two rolls spaced apart in a horizontal direction; and heating the preform to bake the preform while rotating the pipe and the preform by rotating at least one roll to transmit a rotation of the roll to the pipe, wherein the polytetrafluoroethylene block-shaped molded article is produced and has a melt viscosity and a block deformation amount contained within a polygonal region surrounded by a straight line A: $x = 1.0 \times 10^9$ (melt viscosity of 1.0×10^9 poise), a straight line B: $x = 2.5 \times 10^{10}$ (melt viscosity of 2.5×10^{10} poise), a straight line C1: $y = 7.0$ (block deformation amount of 7.0%), a straight line D1: $y = 0$ (block deformation amount of 0%), and a straight line E1: $y = -8.7 \log_{10}(x) + 91$ in a graph with an x-axis being a common logarithm of the melt viscosity (poise) at 380°C of polytetrafluoroethylene and a y-axis being the block deformation amount (%) which is a weight loss until a stable film or sheet can be cut from the molded article.

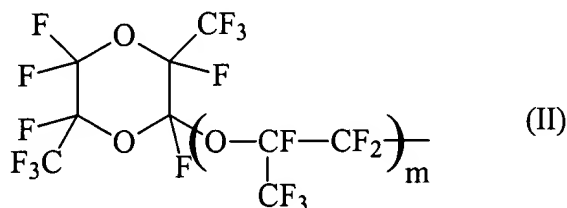
Claim 9. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene powder in said polytetrafluoroethylene block-shaped molded article is a copolymer of tetrafluoroethylene and another fluoromonomer.

Claim 10. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene powder in said polytetrafluoroethylene block-shaped molded article is a copolymer of tetrafluoroethylene and another perfluorovinylether of the formula (I):

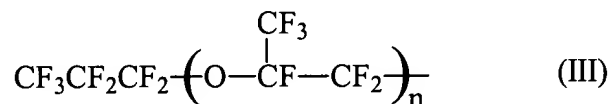


wherein R_f is

- a perfluoroalkyl group having 1 to 10 carbon atoms,
- a perfluoro(alkoxyalkyl) group having 4 to 9 carbon atoms,
- a group represented by the formula (II):



- wherein m is a number of 0 to 4, or
- a group represented by the formula (III):



wherein n is a number of 1 to 4.

Claim 11. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a roundness degree of not more than 5.0%.

Claim 12. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a roundness degree of not more than 0.3%.

Claim 13. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a deformation degree of not more than 15%.

Claim 14. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a deformation degree of not more than 1.0%.

Claim 15. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a bend of not more than 2.0%.

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Claim 16. (Previously Presented) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the polytetrafluoroethylene block-shaped molded article has a bend of not more than 0.1%.

Contd
Claim 17. (New) The polytetrafluoroethylene block-shaped molded article of claim 1, wherein the height of said polytetrafluoroethylene block-shaped molded article is 20 cm to 150 cm.
